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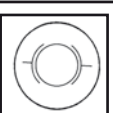


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#### 1.1.4 Designation of the legal dimension units

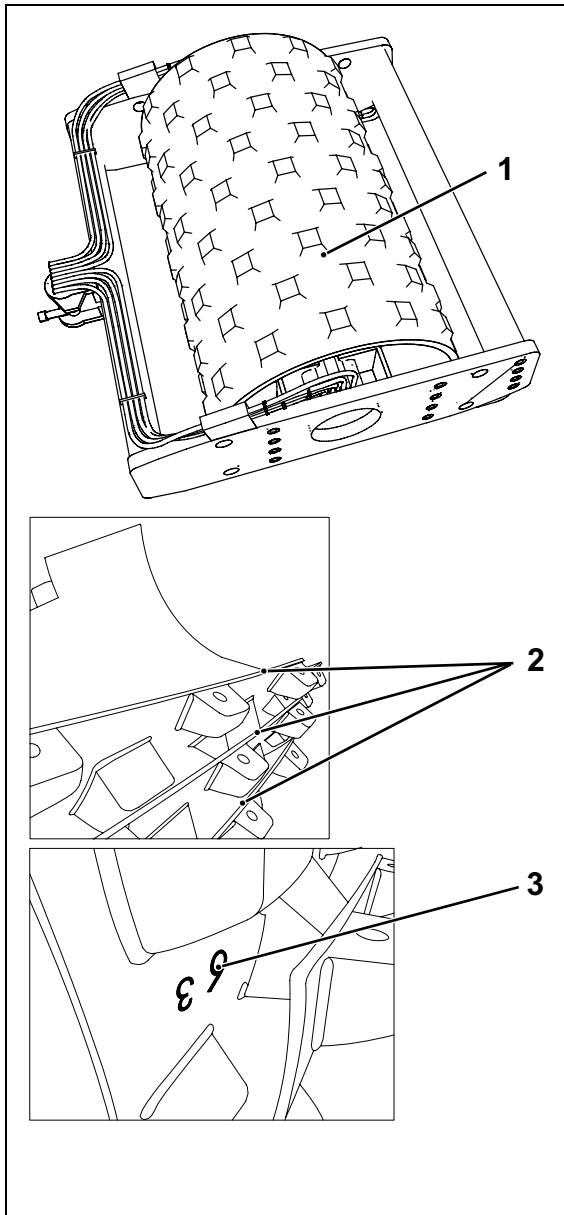
<b>Metric</b>	<b>Inch</b>
25.40 mm	1 in (inch)
1 kg (kilogram)	2.205 lbs (pounds)
1.356 Nm (1 kpm)	7.233 lbf x ft (pound force foot)
1.356 Nm (0.138 kpm)	1 lbf x ft (pound force foot)
1 kg / cm	5.560 lbs / in (pound per inch)
1 bar (1.02 kp/cm <sup>2</sup> )	14.233 psi (pounds force per square inch lb/in <sup>2</sup> )
0.070 bar (0.071 kp/cm <sup>2</sup> )	1 psi (lb/in <sup>2</sup> )
1 Liter	0.264 Gallon (Imp.)
4.456 Liter	1 Gallon (Imp.)
1 Liter	0.220 Gallon (US)
3.785 Liter	1 Gallon (US)
1609.344 m	1 Mile (land mile)
0° C (Celsius)	+ 32° F (Fahrenheit)
0° C (Celsius)	273.15 Kelvin

### 3.1.1 Displays Dashboard



Symbol	Function	Description
	Display forward motion (green)	Activation (light) indicates that the compaction roller is moving forward.
	Display reverse motion (green)	Activation (light) indicates that the compaction roller is moving backward.
	Warning light parking brake (red)	Light indicates the activation of the parking brake. The Diesel engine can only be started with the parking brake applied. Driving is not possible with the parking brake applied.
	Warning light charge control (red)	Light indicates that the ignition is activated. Fades as soon as the Diesel engine and the generator have started.
	Warning light brake pressure (red)	Indicates that the hydraulic oil pressure of the brake system is insufficient.
	Diesel engine oil temperature (red)	If this lamp lights up, immediately stop the compaction roller and let the Diesel engine idle until the oil cools down! See Deutz operating manual.
	Diesel engine oil pressure (red)	If this lamp lights up during operation, immediately stop the Diesel engine!

## 4.1 Conversion from a smooth roller drum to a pad foot drum



### Safety instructions referring to work with the compaction roller



#### **NOTE!**

#### **Obligatory information!**

- Inform yourself of all issues related to operating the compaction roller.
- A crane with a lifting capacity of at least 8 tons is required to retrofit the compaction roller and convert to a pad foot drum.

### Converting from a smooth drum to a pad foot drum

- A retrofit kit containing three pad foot segments is available for using the compaction roller with a pad foot drum (1).

### Labeling of the pad foot segments

- Each of the three pad foot segments (2) is individually labeled next to the split pad feet (3).



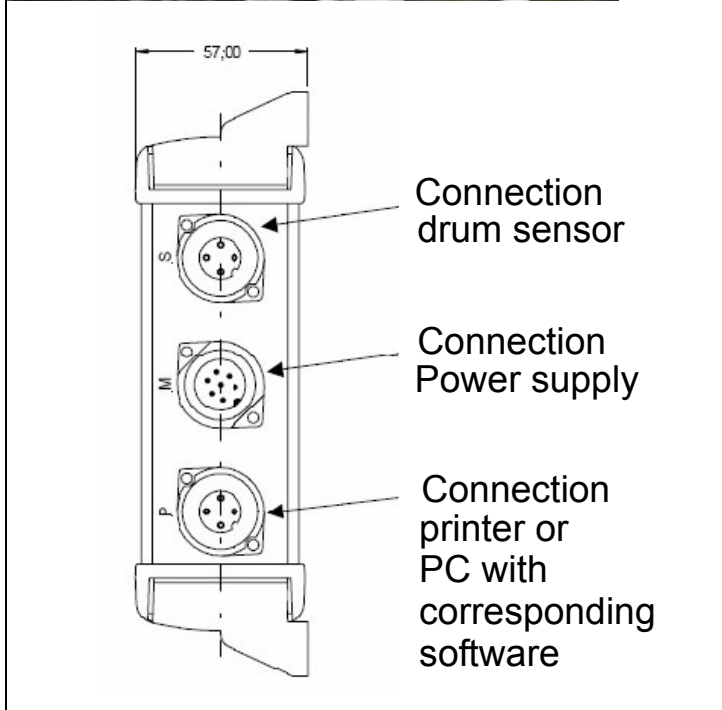
#### **NOTE!**

- Observing the following instructions and maintaining the correct sequence of actions is of vital importance in order to mount the three pad foot segments (PD shells).
- Pay close attention to the labeling (3) of the segments (2) and the correlation of the serial numbers.
- Only appropriately labeled pad foot segments (2) with identical serial numbers match up for this particular compaction roller.

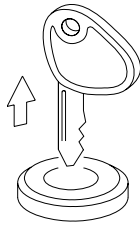
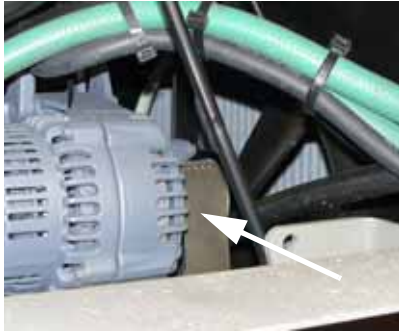
### 4.2.3 Connecting the compaction measurement system



- The connections for the compaction measurement system (2,3) are established by means of plug adapters (9).
- Be sure to observe the correct allocation of the plugs.



## Checking the V-belt



- Check the V-belt tension and watch out for damage.



### **WARNING!**

- Never check the V-belt tension with the Diesel engine running!
- Turn off the Diesel engine and remove the ignition key.



### **NOTE!**

- Refer to the Deutz Diesel engine operating manual for instructions on tensioning and replacing the V-belt.

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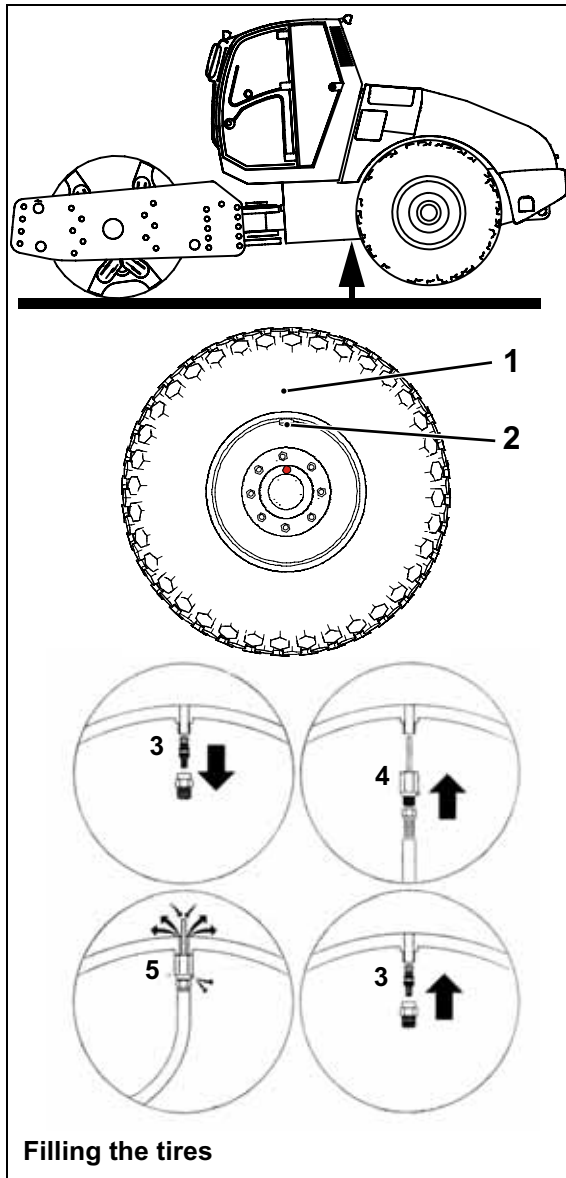


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## 5.3 Tires at the rear axle

### 5.3.1 Water filling



- In order to improve their propulsional properties, on delivery, the tires are filled with water and an antifreeze additive composed of magnesium chloride.



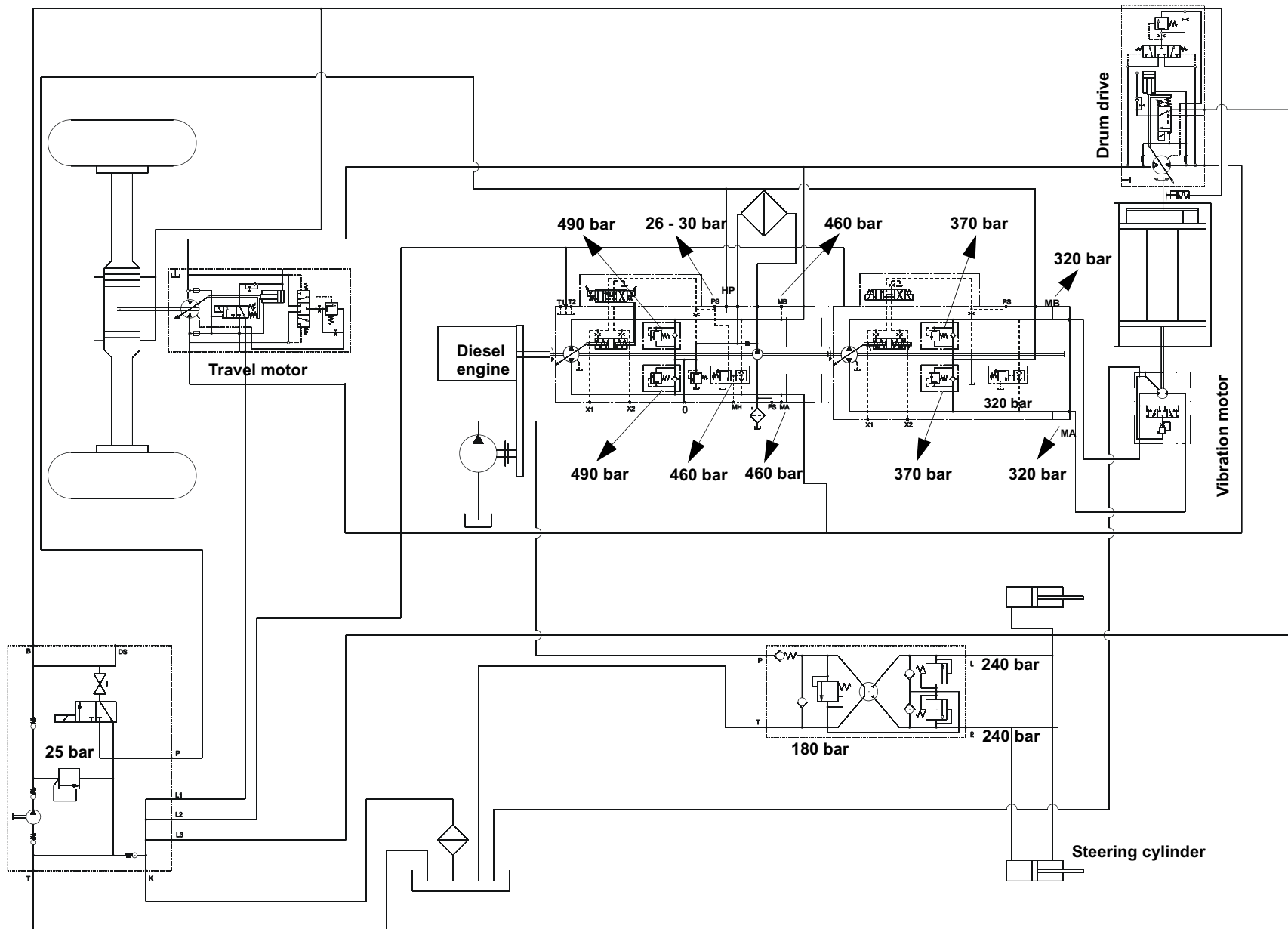
#### **NOTE!**

- Magnesium chloride is commercially available granulated salt with a 47% share of dry substance. In countries where the exterior temperatures never fall below 0° C, the tires can be filled with industrial water, without any additives.

#### **Filling procedure: Water and antifreeze additive**

- Use a hydraulic jack to lift the compaction roller at the rear axle.
- Turn the respective tire (1) until the charge valve (2) is in its **top** position.
- Slowly unscrew the valve core (3).
- Screw a hose line (4) onto the charge valve (2).
- The saline solution can be poured into the tire (1) by means of a container placed at a higher level or via a special pump.
- The filling process (5) must be interrupted repeatedly because the tire needs to be bled (ventilated).
- If the tire is not sufficiently filled after pouring in the saline solution, add industrial water to establish the required fill level.

## 6.2.3 Hydraulic circuit diagram - entire hydraulic system HR120C-9



## 7.2 Installing and dismantling the drum

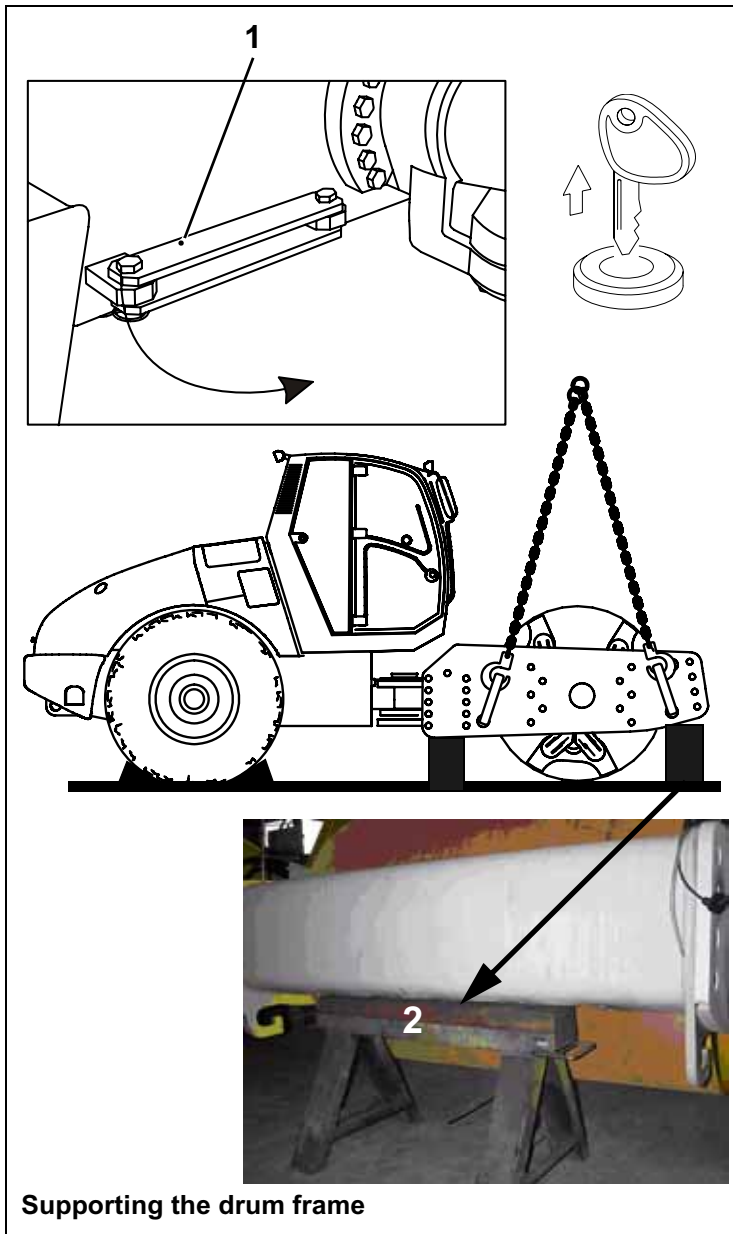
### 7.2.1 Preparing the roller for drum removal and installation



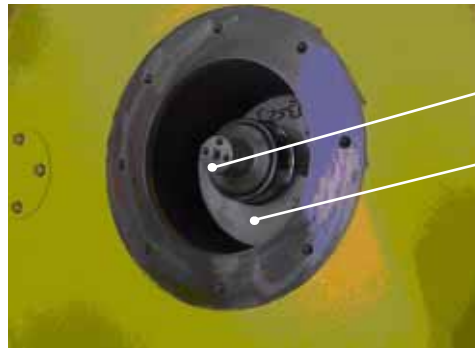
#### **ATTENTION!**

The drum may only be removed in a workshop.  
Sufficient crane capacity must be available to lift the drum frame and the drum.

- Secure the roller against rolling before starting work.
- Pull out the ignition key.
- Insert the anti-buckling device (1) between the drum frame and the basic frame.
- Be sure to secure the rear wheels by means of wheel chocks.
- Use suitable lifting gear to fasten the drum frame to a crane.
- Lift the drum frame so that the drum and the rubber buffer are released from any charge .
- Place supports (2) under the front and at the rear of the drum frame.
- Put oil receptacles under the drum drive and under the vibration drive.

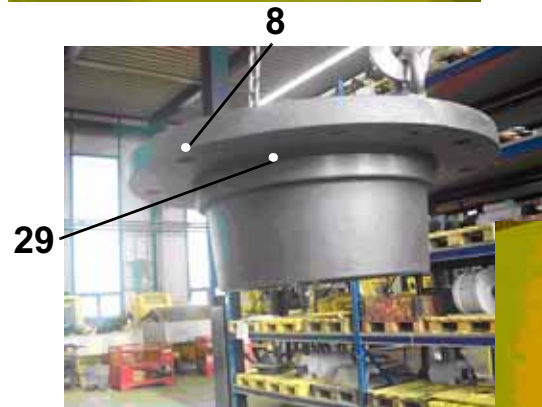


Supporting the drum frame



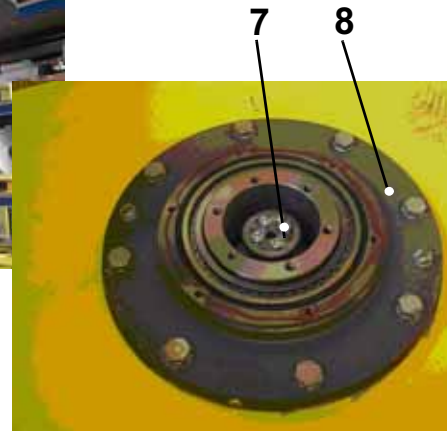
10

11



8

29



7

8



Oil

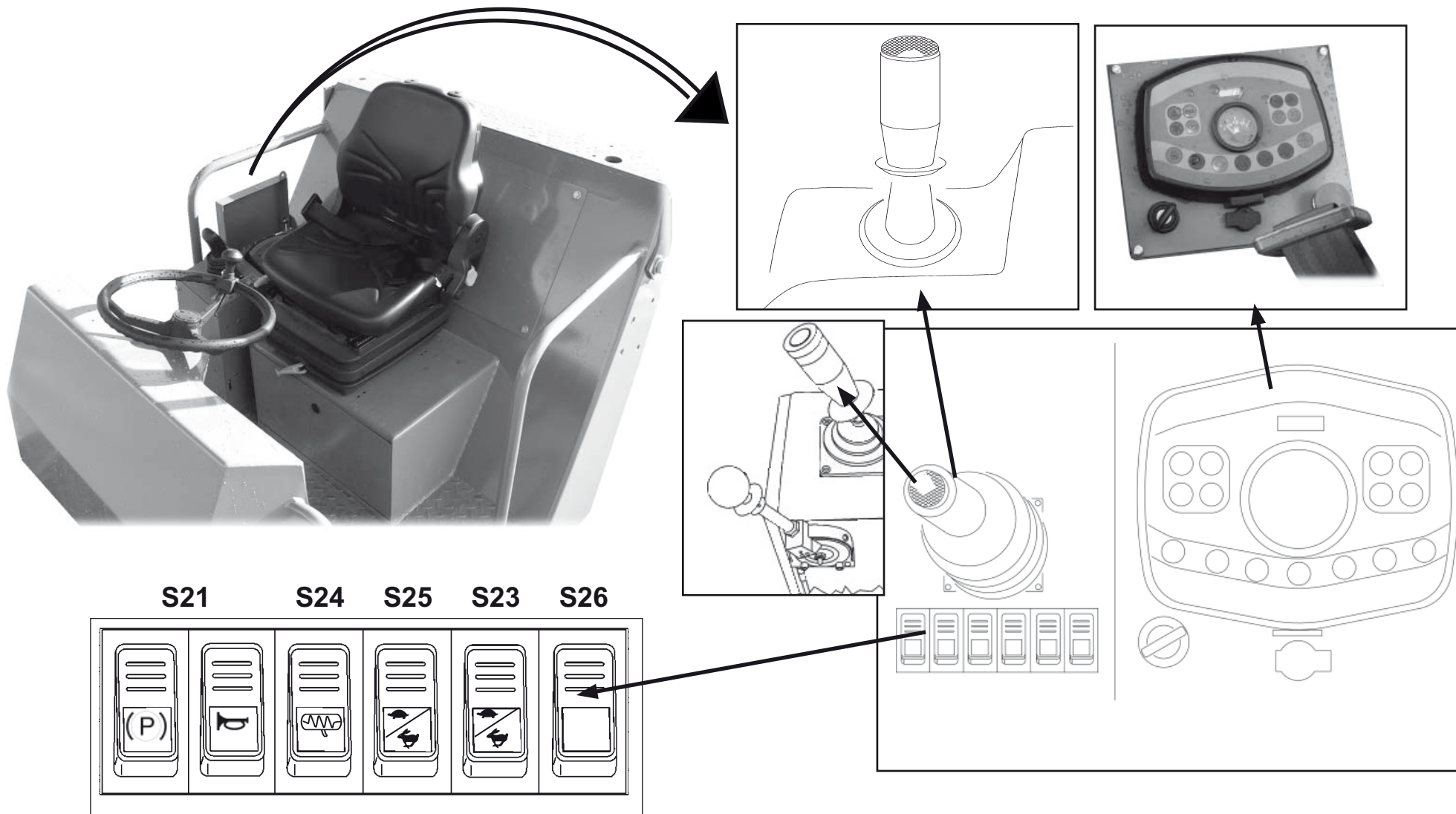
Installing the bearing housing and the vibration shaft on the vibration drive side:

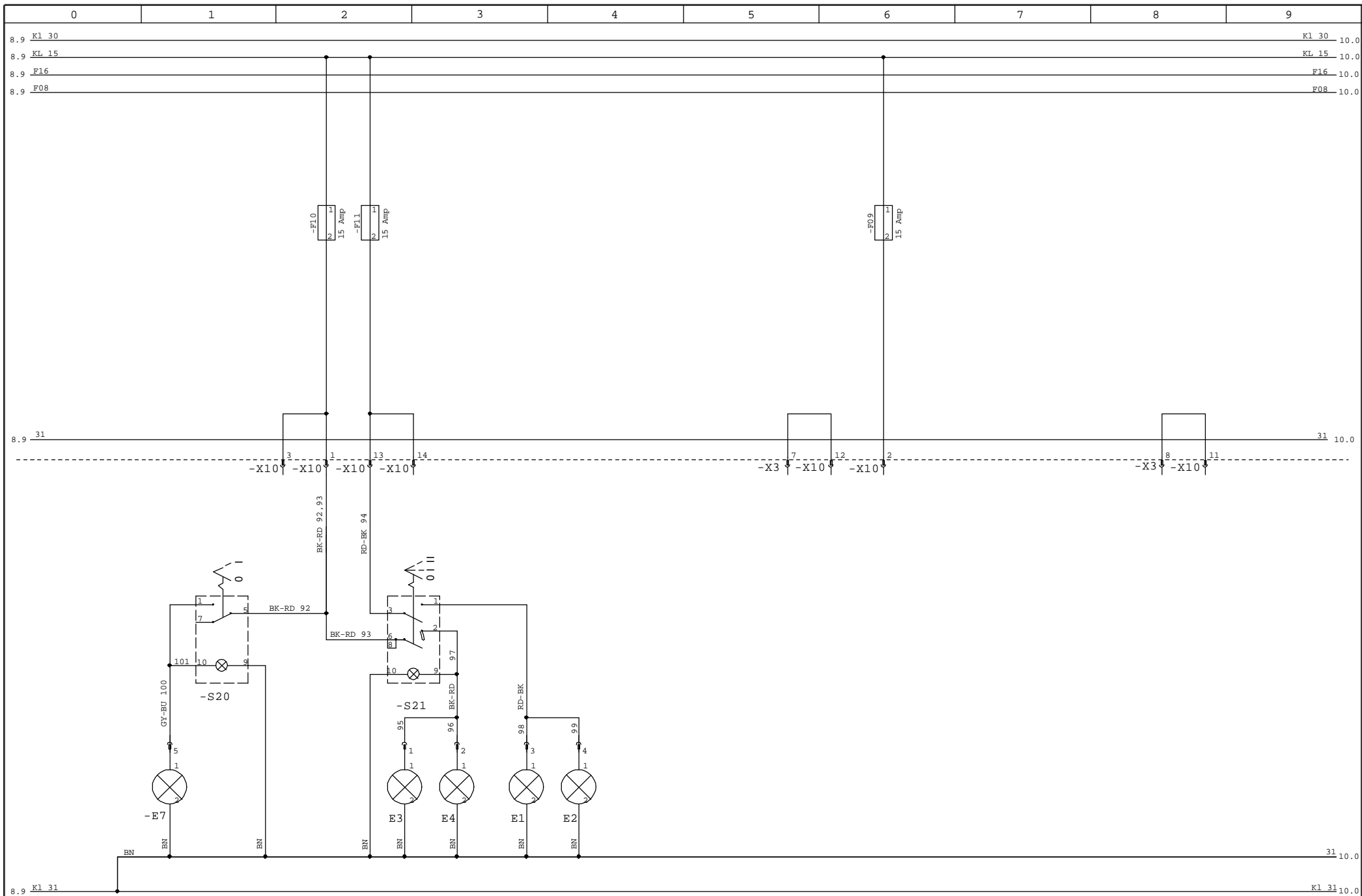
- Screw an eyebolt into the marked tap hole (10).
- Use a crane to insert the vibration shaft (11) into the drum.
- After inserting the shaft (11) by turning it, check whether it is seated correctly in the bearing of the drum drive side.
- Remove the eyebolt (10).
- Use four screws to install the coupling (7) in the housing (8) and bolt it onto the shaft.
- Apply sealing compound (e.g. Loctite 518) to the sealing face of the drum.
- Insert the bearing housing (8) into the vibration drive side. Refer to the description 'Installing the bearing housing of the drum drive side'.
- Fill in lubricating oil (in accordance with the SAE 40 specifications) via the opening between the bearing fixture and the shaft bearing.
- Required quantity of lubricating oil: 17 liters

## 8.1.5 Troubleshooting

Malfunction / Fault	Causes and Effects	Measures to be taken
Vibration fails to start	<p><b>Electrical fault:</b></p> <ul style="list-style-type: none"> <li>The button on the top of the joystick, which serves to (de)activate the vibration, is defective.</li> <li>Fuse 02 is defective.</li> <li>Solenoid valve Y05/06 is defective.</li> </ul> <p><b>Hydraulic fault:</b></p> <ul style="list-style-type: none"> <li>The supply pressure is too low.</li> </ul>	<ul style="list-style-type: none"> <li>Check the vibration selector switch on the console. Check relay K04.</li> <li>Replace the fuse, if necessary.</li> <li>Replace the solenoid valve, if necessary.</li> <li>Check the supply pressure.</li> <li>Check high pressure <b>A &amp; B</b> at measuring points.</li> <li>Check the coupling between the vibration motor and the shaft.</li> </ul>
Vibration cannot be stopped	<ul style="list-style-type: none"> <li>The button on the top of the joystick, which serves to (de)activate the vibration, is defective.</li> </ul>	
The vibration system works sluggishly	<ul style="list-style-type: none"> <li>Speeds</li> </ul>	<ul style="list-style-type: none"> <li>Check high pressure <b>A &amp; B</b> at measuring points <b>MA</b> and <b>MB</b>.</li> <li>Check the oil level in the vibration bearing, see <b>Maintenance Instructions</b>.</li> </ul>
The vibration system produces loud noise	<ul style="list-style-type: none"> <li>Frequencies</li> </ul>	<ul style="list-style-type: none"> <li>Check the frequencies.</li> <li>Check the vibration system.</li> </ul>

Overview: Switches (refer to electrical circuit diagrams for further information on the functions)





Option  
Rundumleuchte  
rotating light

Option  
Arbeitscheinwerfer  
work lights  
hinten rear

001		27.07.09	Heuer	Datum	27.07.2009
002			Heuer	Bearb.	W.Heuer
				Gepr.	
Zust.	Änderung	Datum	Name	Norm	Urspr.


Vers 01

Atlas Weyhausen GmbH & CO KG  
Maschinenfabrik  
27793 Wildeshausen

AW-2699 /1110-1140 - Canopy

Stromlaufplan / circuit diagram

Blatt 9  
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